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2	0	nagle-deborah.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/01 13:37
3	0	woolf-elizabeth.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/01 13:37
1	4	moore-karen.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/01 13:37
4	1	woolf-elizabeth-a.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/01 13:37
5	3	nagle-deborah-lynn.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/01 13:37
6	2	i5e same protein same coupled same receptor	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/01 13:38
-	2	5891720.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/01 13:36

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NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and
IFIUDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and
ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
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NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 26 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 27 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 28 Oct 21 EVENTLINE has been reloaded
NEWS 29 Oct 24 BEILSTEIN adds new search fields
NEWS 30 Oct 24 Nutraceuticals International (NUTRACEUT) now available on
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NEWS 31 Oct 25 MEDLINE SDI run of October 8, 2002

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=> s 11 and 12

L5 0 L1 AND L2

=> s 12 and 13

L6 0 L2 AND L3

=> s l1 and l3

L7 0 L1 AND L3

=> s i5e (s) protein (s) coupled (s) receptor

L8 8 I5E (S) PROTEIN (S) COUPLED (S) RECEPTOR

=> dup rem 18

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L9 6 DUP REM L8 (2 DUPLICATES REMOVED)

=> d 19 total ibib kwic

L9 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:615837 CAPLUS

DOCUMENT NUMBER: 137:164746

TITLE: Peptide ligands for mouse and rat orphan G protein-coupled receptor ZAQ, recombinant expression, and uses for drug screening and therapy

INVENTOR(S): Ohtaki, Tetsuya; Masuda, Yasushi; Takatsu, Yoshihiro

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: PCT Int. Appl., 186 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002062996	A1	20020815	WO 2002-JP837	20020201
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ,			

TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: JP 2001-26798 A 20010202

REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

IT 447472-34-6P 447472-35-7P 447472-36-8P 447472-37-9P 447472-38-0P
447472-39-1P 447472-40-4P 447472-41-5P 447472-50-6P, G
protein-coupled receptor ZAQ (human) 447472-51-7P, G protein-coupled
receptor rZAQ1 (rat) 447472-52-8P, G protein-coupled receptor rZAQ2
(rat) 447472-53-9P, G protein-coupled receptor I5E (human) 447472-54-0P, G protein-coupled
receptor GPR73 (mouse) 447472-55-1P, G protein-coupled receptor mI5E
(mouse)
RL: ARU (Analytical role, unclassified); BPN (Biosynthetic preparation);
BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical
study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; peptide ligands for mouse and rat orphan G
protein-coupled receptor ZAQ, recombinant
expression, and uses for drug screening and therapy)

L9 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:615775 CAPLUS
 DOCUMENT NUMBER: 137:165839
 TITLE: Novel physiologically active peptide and its use
 INVENTOR(S): Ohtaki, Tetsuya; Masuda, Yasushi; Takatsu, Yoshihiro;
 Watanabe, Takuya; Terao, Yasuko; Shintani, Yasushi;
 Hinuma, Syuji
 PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
 SOURCE: PCT Int. Appl., 197 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002062944	A2	20020815	WO 2002-JP852	20020201
WO 2002062944	A3	20021003		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.: JP 2001-26820 A 20010202				
IT 448314-74-7 448314-75-8 448314-77-0 448314-79-2, G protein coupled-receptor (rat rZAQ1) 448314-80-5, G protein coupled-receptor (rat rZAQ2) 448314-81-6, G protein-coupled receptor I5E (human) 448314-82-7 448314-83-8 448314-84-9				
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study) (amino acid sequence; novel physiol. active peptide and use)				

L9 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2002:72287 CAPLUS
 DOCUMENT NUMBER: 136:97391
 TITLE: Peptide ligands for human orphan G protein-coupled
receptor ZAQ, recombinant expression, and uses for
drug screening and therapy
 INVENTOR(S): Ohtaki, Tetsuya; Masuda, Yasushi; Takatsu, Yoshihiro;
Watanabe, Takuya; Terao, Yasuko; Shintani, Yasushi;
Hinuma, Syuji
 PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
 SOURCE: PCT Int. Appl., 191 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002006483	A1	20020124	WO 2001-JP6162	20010717
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				

BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INN: JP 2000-2174 A 20000718

JP 2001-26779 A 20010202

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

IT **Receptors**

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses) (**I5E**; peptide ligands for human orphan G **protein-coupled receptor ZAQ**, recombinant expression, and uses for drug screening and therapy)

IT 389166-25-0 389166-26-1, **Receptor I5E** (human)

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses) (amino acid sequence; peptide ligands for human orphan G **protein-coupled receptor ZAQ**, recombinant expression, and uses for drug screening and therapy)

L9 ANSWER 4 OF 6

MEDLINE

DUPLICATE 1

ACCESSION NUMBER: 2002311122 MEDLINE

DOCUMENT NUMBER: 22050031 PubMed ID: 12054613

TITLE: Isolation and identification of EG-VEGF/prokineticins as cognate ligands for two orphan G-protein-coupled

receptors.

AUTHOR: Masuda Yasushi; Takatsu Yoshihiro; Terao Yasuko; Kumano Satoshi; Ishibashi Yoshihiro; Suenaga Masato; Abe Michiko; Fukusumi Shoji; Watanabe Takuya; Shintani Yasushi; Yamada Takao; Hinuma Shuji; Inatomi Nobuhiro; Ohtaki Tetsuya;

Onda

Haruo; Fujino Masahiko

CORPORATE SOURCE: Pharmaceutical Research Division, Takeda Chemical Industries Ltd., Wadai 10, Tsukuba, Ibaraki 300-4293, Japan.

SOURCE: BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (2002 Apr 26) 293 (1) 396-402.

Journal code: 0372516. ISSN: 0006-291X.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

OTHER SOURCE: GENBANK-AY089972; GENBANK-AY089973; GENBANK-AY089974; GENBANK-AY089975; GENBANK-AY089976; GENBANK-AY089983; GENBANK-AY089984

ENTRY MONTH: 200207

ENTRY DATE: Entered STN: 20020611

Last Updated on STN: 20020707

Entered Medline: 20020705

AB . . . study demonstrates that EG-VEGF/prokineticin 1 and a peptide closely related to EG-VEGF, prokineticin 2, are cognate ligands of two orphan G-**protein-coupled receptors**

designated ZAQ (=EG-VEGF/PK-R1) and **I5E** (=EG-VEGF/PK-R2).

EG-VEGF/prokineticin 1 and prokineticin 2 induced a transient increase in intracellular calcium ion concentration ([Ca(2+)](i)) with nanomolar potency in . . . Chinese hamster ovary (CHO) cells expressing

EG-VEGF/PK-R1 and -R2 and bind to these cells with high affinity and with different **receptor** selectivity. EG-VEGF/prokineticins provoke rapid phosphorylation of p44/42 MAP kinase and DNA synthesis in the

bovine

adrenal capillary endothelial cells (BACE). The mRNAs of both EG-VEGF/PK-R1 and -R2 were expressed in BACE. The identification of the **receptors** for EG-VEGF/prokineticins may provide a novel molecular basis for the regulation of angiogenesis in endocrine glands.

L9 ANSWER 5 OF 6 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 1999:305506 BIOSIS
DOCUMENT NUMBER: REV199900305506
TITLE: Isolated DNA encoding a novel human G-protein coupled receptor.
AUTHOR(S): Moore, Karen (1); Nagle, Deborah Lynn; Woolf, Elizabeth A.
CORPORATE SOURCE: (1) Maynard, MA USA
ASSIGNEE: Millennium Pharmaceuticals, Inc.
PATENT INFORMATION: US 5891720
SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (15-JUN-99) Vol. 1221, No. 1, pp. NO PAGINATION.
ISSN: 0098-1133.
DOCUMENT TYPE: Patent
LANGUAGE: English
AB The present invention relates to the discovery, identification and characterization of nucleic acids that encode a novel G protein coupled receptor (I5E) protein. The invention encompasses I5E nucleotides, host cell expression systems, I5E proteins, fusion proteins, polypeptides and peptides, antibodies to the receptor, transgenic animals that express an I5E transgene, or recombinant knock-out animals that do not express the I5E, antagonists and agonists of the receptor, and other compounds that modulate I5E gene expression or I5E activity that can be used for diagnosis, drug screening, clinical trial monitoring, and/or used to treat disorders such as inflammatory, . . .

L9 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1998:708836 CAPLUS
DOCUMENT NUMBER: 129:327533
TITLE: human g-protein coupled receptor protein and cDNA sequences and therapeutic applications
INVENTOR(S): Moore, Karen; Nagle, Deborah Lynn; Woolf, Elizabeth A.
PATENT ASSIGNEE(S): Millennium Pharmaceuticals, Inc., USA
SOURCE: PCT Int. Appl., 105 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9846620	A1	19981022	WO 1998-US7615	19980417
W: AU, CA, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5891720	A	19990406	US 1997-833226	19970417
AU 9869736	A1	19981111	AU 1998-69736	19980417
AU 749198	B2	20020620		
EP 1007536	A1	20000614	EP 1998-915594	19980417
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				

PRIORITY APPLN. INFO.: US 1997-833226 A 19970417
WO 1998-US7615 W 19980417

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

AB The present invention relates to the discovery, identification and characterization of nucleic acids that encode a novel G protein coupled receptor (I5E) protein. The invention encompasses I5E nucleotides, host cell expression systems, I5E proteins, fusion proteins, polypeptides and peptides, antibodies to the receptor, transgenic animals that express an I5E transgene, or

recombinant knock-out animals that do not express the I5E, antagonists and agonists of the receptor, and other compds. that modulate I5E gene expression or I5E activity that can be used for diagnosis, drug screening,

clin. trial monitoring, and/or used to treat disorders such as inflammatory, central nervous system or gastrointestinal disorders.

IT Quaternary structure
(DNA triplex, triplex DNA for prevention of I5E transcription; human g-protein coupled receptor protein and cDNA sequences and therapeutic applications)

IT Brain
Liver
Spleen
(I5E gene expression in brain and liver and spleen; human g-protein coupled receptor protein and cDNA sequences and therapeutic applications)

IT Gene, animal
RL: ANT (Analyte); BSU (Biological study, unclassified); PRP (Properties);
THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(I5E; detection of mutation within; human g-protein coupled receptor protein and cDNA sequences and therapeutic applications)

IT Transgene
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(I5E; human g-protein coupled receptor protein and cDNA sequences and therapeutic applications)

IT Antibodies
RL: ARG (Analytical reagent use); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(antibody recognizing I5E protein; human g-protein coupled receptor protein and cDNA sequences and therapeutic applications)

IT Translation, genetic
(antisense or ribozyme blocking I5E translation; human g-protein coupled receptor protein and cDNA sequences and therapeutic applications)

IT Antisense DNA
Ribozymes
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antisense or ribozyme blocking I5E translation; human g-protein coupled receptor protein and cDNA sequences and therapeutic applications)

IT Gene
(expression, genetic diagnosis involving expression detection and screening for compds. modulating I5E gene expression; human g-protein coupled receptor protein and cDNA sequences and therapeutic applications)

IT mRNA
RL: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)
(genetic diagnosis involving I5E expression detection; human g-protein coupled receptor protein and cDNA sequences and therapeutic applications)

IT G protein-coupled receptors
RL: ANT (Analyte); BSU (Biological study, unclassified); PRP (Properties);
THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(genetic diagnosis involving I5E expression detection; human
g-protein coupled receptor
protein and cDNA sequences and therapeutic applications)
IT Transcription, genetic
(triplex DNA for prevention of I5E transcription; human g-
protein coupled receptor protein
and cDNA sequences and therapeutic applications)

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